

### CLAIM AMENDMENTS

The following Listing of Claims, in which deleted text appears struck through and inserted text appears underlined, will replace all prior versions, and listings, of the claims in the application.

#### Listing of Claims:

1.-39. (Cancelled)

40. **(Currently Amended)** A method of treating a blood sample that comprises at least one analyte, comprising:

providing a strip comprising a membrane, the membrane comprising

a receiving portion for receiving the blood sample;

a first location having a first reagent disposed thereon, the first reagent sufficient to lyse cells in the blood sample; and

a second location downstream relative to the first location having a second reagent disposed thereon, the second reagent sufficient to capture an analyte of the hemoglobin in the blood sample;

providing an eluting agent disposed on the strip upstream relative to the first location, the eluting agent sufficient to elute hemoglobin in the blood sample;

applying ~~the~~ **an untreated whole** blood sample to the receiving portion of the membrane; and

allowing the eluting agent to flow downstream along the membrane **and contact the untreated whole blood sample.**

41. (Previously presented) The method of claim 40, wherein the membrane has a property selected from wicking functionality, capillary functionality, porosity, and any combination thereof.

42. (Previously presented) The method of claim 40, wherein the first reagent is selected from a detergent, a hypotonic solution, and any combination thereof.

43. (Previously presented) The method of claim 40, wherein the eluting agent is selected from a buffer, a solvent, and any combination thereof.

44. (Previously presented) The method of claim 40, wherein the second reagent is selected from an antibody, a chemical reagent comprising at least one ligand sufficient for binding the analyte, and any combination thereof.

45. (Original) The method of claim 40, wherein the analyte is glycated hemoglobin.

46. (**Currently Amended**) The method of claim 40, wherein the membrane further comprises a third location downstream relative to the second location having a third reagent disposed thereon, the third reagent sufficient to capture another analyte of the hemoglobin in the **untreated whole** blood sample.

47. (Previously presented) The method of claim 46, wherein the third reagent is selected from an antibody, a glycoprotein, a chemical reagent comprising at least one ligand sufficient for binding the another analyte, and any combination thereof.

48. (Original) The method of claim 46, wherein the another analyte is non-glycated hemoglobin.

49. (Original) The method of claim 40, wherein providing an eluting agent comprises providing a means for containing the eluting agent.

50. (Previously presented) The method of claim 49, wherein the means is selected from an absorbent pad, a pouch, a blister, and any combination thereof.

51. (Original) The method of claim 49, wherein allowing the eluting agent to flow comprises releasing the eluting agent from the means.

52. (Previously presented) The method of claim 51, wherein the releasing is selected from breaking an integrity of the means, applying a pressure to the means, and any combination thereof.

53.-90. (Cancelled)

91. (**Currently Amended**) The method of claim 40, wherein the first location is downstream relative to the receiving portion for receiving the **untreated whole** blood sample.

92. (Cancelled)

93. (New) The method of claim 40, wherein the subsystem for detecting the at least one analyte comprises obtaining an optical signal that relates to the amount of the analyte of interest.

94. (New) The method of claim 40, wherein the eluting agent is allowed to flow downstream when a release condition is met.

95. (New) The method of claim 94, wherein the release condition is met by closing a door in connection with the strip.